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THE DEOXIDISING AND DESULPHURISING SLAG-
REACTION PROCESS. [Jan 49] 13p. 7 refs.
Order from SLA ml\$2.40, ph\$3.30 60-18846

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1. Steel--Production
2. Title: Slag reaction process
- I. Kriska, O.
- II. Rapatz, F.

Office of Technical Services

(Metallurgy--Ferrous Metals. TT. v. 5. no. 3)

Fundamentals and Results of Steel Production
by Rotor Process, by R. Graf.

GERMAN, per, Vereins Deutscher
Eisenhüttenleute, 1956.

CSIRO GB 70/4325

Sci - Engr
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Apr 62

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Peculiarities of the Dielectric Behavior of Con-
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GERMAN, per, VDE Fachberichte, Vol 7, 1935,
pp 129-132.
SLA TT-61-10036

Sci/Electronics
Jun 67

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Recent Methods of Noise Reduction in
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GERMAN, per, VDE Fachberichte, Vol 19,
1956, pp 1/124-1/129.
CEGB Trans 8792

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The Effect of Various Raw Materials on the Alkali
Resistance of Enamel, by G. Gesche, 7 pp.

GERMAN, per, Verein Deutsche Emailfachleute
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US Dept of Commerce
Dr Wallace R. Brode, Assoc Dir
Nat'l Bureau of Standards

Sci - Chemistry
Mar 1957 CTS/dex

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GERMAN, per, Verein Deutsche Emailfachleute; Mitteilungen, Vol IV, 1956, pp 47-54.

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Sci - Chemistry
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Mitteilungen, Dec 1959, pp 93-96.

BISI 1752

Sci - Phys; Min/Met

Dec 60

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GHEBEN, par, VDE Fachberichte, Vol 1, 1966,
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K. Andresen, H. Brandes, 24 pp.

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pp 115-119.

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Sci - Min/ast
Sep 59

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ELECTRONIC SWITCHING CIRCUITS FOR AUTO-
MATIC TELEPHONE SYSTEMS. [1962] 5p.
(figs. omitted).
Order from SLA \$1.10

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Trans. from VDE [Fachberichte] (West Germany)
1953, v. 17.

DESCRIPTORS: Automatic, *Telephone communica-
tion systems, *Switching circuits, *Electronic relays.

(Research Methods--Communication Theory, TT,
v. 9, no. 12)

62-20477

I. Panzerbieter, H.

Office of Technical Services

Properties and Applications of Hall-Effect Generators,
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GERMAN, per, VDE Fachberichten (Verein Deutscher
Elektrotechniker), Vol XIX, 1956.

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Sci - Engr
Mar 58

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Willie, H.
RESULTS OF PROPAGATION MEASUREMENTS WITH
A 15,000 MC MICROWAVE LINK. [1963] 7p.
Order from SLA \$1.10 63-14094

1. Willie, H.

Trans. of VDE Fachberichte (West Germany) 1956,
v. 19, p. 91-92.

DESCRIPTORS: Propagation, *Microwaves, *Inter-
ference analyzers, Radio transmitters, Microwave
equipment, *Attenuation, Measurement.

The field strength of a 15,000 Mc transmitter located
on the Scadelberg is continuously being monitored in
Munich, at a distance of 44 km (28 miles). The re-
cordings made during a selected time period were
subjected to a cumulative frequency analysis. It was
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during which the field strength faded due to inter-
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Recent Methods of Combating Use of Large
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GERMAN, per, VDE Fachberichte, Vol 19, 1956,
pp 1/24-1/129.

*BISI 8792

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Behaviour of Silicone-Treated Outdoor Insulators
in the Case of Natural Soiling (Foreign Layers),
by E. Stolte.

GERMAN, per, VDE-Fachberichte, 1960.

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Gruber, Helmut.
ELECTRIC FURNACES AND PROCESSES OF
MODERN VACUUM METALLURGY. [1962] 20p.
(figs. refs. discussion omitted).
Order from SLA \$1.60

62-16304

Trans. of VDE Fachberichte (West Germany) 1960,
v. 21, p. 150-161.

DESCRIPTORS: *Electric furnaces, *Vacuum
furnaces, Metallurgical laboratories, Industrial
research.

(Metallurgy, FT, v. 8, no. 10)

62-16304

I. Gruber, H.

Office of Technical Services

A Simple Photometric Method of Gage Measurement for Complete Evaluation of the Planar Stress Condition on Photoelastic Models,
by H. H. Rucke. FOR GOVERNMENT USE ONLY
GERMAN, per, VDI-Zeitschrift, Vol XCVIII,
No 5, 1956, pp 165-170. 9696437
DDC RSIC-348

Sci - Phys
Apr 65

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Best Discharge. Steam Generators Over 10 t/h
Capacity Coal Fired, With Forced-Draft and
Travelling Grate. VDI Specifications, 21 pp.

GERMAN, pamphlet, VDI, No 2091, Jan 1959.

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Sci - Engineering
Jan 60

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Effect of Mechanical Vibrations on Humans.
FOR GOVERNMENT USE ONLY
GERMAN, rpt, Verein Deutscher Ingenieure - VDI 2057,
October 1963, 8 pp.
Dept of Navy NSRDC T-342

PRIOR APPROVAL OF THE NAVAL SHIP RESEARCH AND
DEVELOPMENT CENTER

Jan 69

Work Sheet of the Society of German Engineers;
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Kaltfleischpressen, Praktische Anwendung,
VDI t-3138, Mar 1953.

SLA 79-17847

Sci
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Vol III, No 11

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Rumpf, H.
DEPOSITION OF PARTICLES ON SOLID WALLS, PT. 4
18p

Order from ATS \$22.65

ATS-12R76G

Trans. of VDI Berichte (West Germany) 1955, v. 6,
p. 17-24, 27-28.

(Physics, TT, v. 12, no. 5)

TT-64-22473

I. Rumpf, H.
II. ATS-12R76G
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

(FDD 26651)

Concerning Certain New Soviet Works in the field
of Non-linear Oscillations, by K. Magnus, 24 pp.

GERMAN, no per, Verein Deutscher Ingenieure-
Berichte, Vol IV, Duesseldorf, Apr 1955, pp 47-52

CIA/FDD/U-7673

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Sci - Engr., Gyroscopes; mathematics

CTB 75/Dec 55

Brake-Testing Methods for Automotive Vehicles and Trailers, by O. Bode, 42 pp.

GERMAN, per, VDI-Berichte, Vol XVII, 1957, pp 5-16.

SLA 57-3296

Sci

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New Brake-Testing Method, by O. Bode,
23 pp.

GERMAN, per, VDI-Berichte, Vol XVII,
1957, pp 17-22.

SLA 57-3294

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Brake-Testing Instruments, by O. Bode,
20 pp.

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Brake-Testing Methods and Standards A-
broad, by G. Fritzsche, 13 pp.

GERMAN, per, VDI-Berichte, Vol XVII, 1957,
pp 29-34.

SLA 57-3293

Sci

Aug 58

72,367

Brake-Testing Experience and Its Implications,
by H. Merz, 102 pp.

GERMAN, per, VDI-Berichte, Vol XVII, 1957, pp
35-64.

SLA 57-3337

Sci

Aug 58

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Recent Studies on Energy Losses in Roller
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GERMAN, per, VDI Ber, Vol XX, 1957, pp 117-121.

RAE 759

Sci - Engr
Feb 59

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63-12795

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MECHANICAL-DYNAMIC LUBRICATING TESTS:
PROBLEMS AND RESULTS (Mechanisch-Dynamische
Schmierstoffprüfungen, Probleme und Ergebnisse) tr.
by D. A. Sinclair. 1962, 59p. 53 refs. NRCC Tech-
nical Trans. 1050.
Order from NRCC \$3.00 NRCC C-4260

Trans. of VDI Berichte (West Germany) 1957, v. 20,
p. 157-178.

DESCRIPTORS: *Lubricants, Tests, Mechanics, Dy-
namics, Test equipment, *Bearings, *Greases, *Oils.

(Materials--Lubricants, TT, v. 9, no. 8)

- I. Diergarten, H.
- II. NRCC TT-1050
- III. NRCC C-4260
- IV. National Research
Council of Canada

Office of Technical Services

Work-Physiological Conditions[#] in the Driver Car, by
H. Dupuis, 28 p.

GERMAN, per, VDI Berichte 1957, Vol XXV, pp 45-56.

SLA 59-17742

Sci
Feb 60
Vol 2, No 9

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The Effect on Human Beings of Mechanical
Vibration in Power-Driven Vehicles, by
D. Dieckmann. UNCL

GERMAN, per, VDI Berichte, Vol XXVII, 1957,
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DSIR/36641/CT

Sci - Med, physiology
Nov 59

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Lubrication as a Load-Limiting Factor in Gearing,
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GERMAN, per, VDI Berichte, Vol XXXI, 1957,
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Sci - Engr
Mar 59

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Thomas, Werner.
HYDROSTATIC AXIAL PISTON TRANSMISSION WITH
INTERNALLY DIVIDED POWER FLOW. [1962] [16]p.
Order from SLA \$1.60 62-18961

Trans. of VDI Berichte (West Germany) 1958, v. 29,
p. 143-148.

DESCRIPTORS: *Hydraulic systems, Pumps, Hydraulic
power systems, *Pistons, *Transmissions, Power
supplies, Fluid flow.

(Machinery--Machine Parts, TT, v. 9, no. 11)

62-18961

I. Thomas, W.

Office of Technical Services

Mixture Formation in the Otto Motor, by K. Lotner,
9 pp. FOR OFFICIAL USE ONLY

GERMAN, per, VDI-Berichte, No 48, 1960, pp 37-44.

CIA/FRD X-5013

Sci - Chem

Sep 62

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The Fatigue Properties of S. G. Iron, by J. Motz.

GERMAN, per, Verein der Deutschen Ingenieure-Berichte
Vol XLIX, 1961, pp 43-46.

BISI 2494

Sci - Min/Metals

Jan 62

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Noise in Gear Drives and the Manufacture of
Low Noise Drives, by H. Zink
GERMAN, per, VDI Berichte, No 47, 1961,
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MIL Ref: 6075.461 (1931)

Sci-Materials
July 68

360,979

Method of Determining the Rotation Frequencies
in the Analysis of Noise and Vibration of
Gears, by K. Jaekel
GERMAN, per, VDI Berichte, No 47, 1961,
pp 91-93
NLL Ref: 6075.461 (1937)

Sci-Materials
July 68

360,977

Starting Characteristics of Pump Turbines of
High Rating or High Specific Speed, by D.
Florjancic, D. Hartland.
GERMAN, per Vdi Berichte, No. 75, 1964
pp 27-36
GB 42/1597

Sci -
Aug 67

335-617

Foam Formation and Its Causes,
by E. Bulker.
GERMAN, per, VDI-Berichte, No 85, 1964,
pp 47-52.
BISI 4603

Sci-M&M
May 66

300,340

New Long-Life "Jumping" Tap Changer, by H.
Schwaiger.

GERMAN, per, Ver Deut Ing Fachber, Vol XVIII,
No 2, 1954, pp 29-33.

ASLIB-QB125

Sci

Aug 58

71,360

Methods of Reducing Transformer Noise, by V.
Aigner,

GERMAN, per, Ver deut Ing Fachber, Vol XVIII, No 2,
1954, pp 38-43.

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Sci
Apr 59

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Provisional Directives for the Testing of Coil
Impregnating Varnishes,

GLADMAN, per, Ver Deut Ing Fachber, Vol CCCIXI, No 8,
p 44.

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Sci

Aug 58

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The Influence of Coated Electrodes on
the Mechanical Strength of Welds, by
K. Baumgärtel, 28 p.

GERMAN, per, VDI-Forschungsheft, 1930, No 336.

BLA 60-10049

Sci
Apr 60
Vol III, No 2

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Heat Transfer to Viscous Fluids in Tubes,
by H. Kramersold.

GERMAN, per, VDI-Forschungsheft, HEFT No 351,
MAY 1931, 20 PP.

NASA TT F-841

Sci - Phys
Jan 63
US GOV'T USE ONLY

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The Thermal Conductivity of Refractory Ceramics and Its
Calculation From the Conductivity of the Components,
by A. Bucher

GERMAN, for, VDI-Forschungen, No 353, Mar/Apr 1982,
pp 1-16.

TPA3/TIB T 4101

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Scientific - Electricity
CTB/DEX

LAWS of Turbulent Flow in Smooth Pipes,
by J. Nikuradse.
GERMAN, rpt, VDI Forschungshft 356,
Beilage zu Forsch Geb-Ing, VDI-Verlag
ChbH, 1932, 36 pp.
NASA TT F-10,359

Sci-Phys
Dec 66

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Quantity Measurement With Nozzles and Orifices
at Small Reynolds Numbers, by H. G. Giese.
GERMAN, per, Ver. Deut. Ing. Forschungsh, Vol 4,
1933, pp 11-20.

*AEC

Sci/Mechan, Indust, Civil,
& Marine Engineering
Oct 66

63-14926

Schardin, Hubert.
THE TOEPLER SCHLIEREN METHOD: THE BASIS
FOR ITS APPLICATION AND QUANTITATIVE EVAL-
UATION (Das Toeplersche Schlierenverfahren:
Grundlagen für Seine Anwendung und Quantitative Aus-
wertung). [1963] [107]p. (foreign text included)

55 refs.

Order from SLA \$9.10

63-14926

Trans. from VDI-Forschungsheft (Germany) 1934,
no. 367.

Another trans. is available from SLA as 57-00599, 83p.
(PB-122 830).

DESCRIPTORS: *Schlieren photography, Photography,
Optics, Light, Deflection, Sensitivity.

The theoretical basis of the Toepler schlieren method
is developed to the degree that, with the formulas de-
rived, a suitable form for the apparatus can be adopted.
(Research Methods--Photographic Equipment, TT,
v. 10, no. 7) (over)

- I. Title: Toepler schlieren
- I. Schardin, H.
- II. Title: Basis...
- III. PB-122 830

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The flow in spiral castings, by H. Kranz. UFGI.
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pp 13-31.

DSIR 33323/CT

Sci - Phys
Mar 59

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Heat Transfer by Free Convection From Horizontal
Cylinders in Diatomic Gases, by R. Hermann, 73 pp,

GERMAN, per, VDI Forschungsheft, No 379, 1936.

OTS 63-10867
NACA TM 1366

14, 724

Scientific - Physics

Dec 1954 OTS

Rathje, Johannes.

PENETRATION ACTION INTO SAND. [1963] 65p.

48 refs. AERDL T-1672.

Available on loan from OTS

63-23000

Trans. from VDI-Forschungsheft (Germany) 1937,
no. 350.

DESCRIPTORS: *Earth-handling equipment, *Soil
mechanics, *Sand, Penetration, Plasticity, Deformation,
Mechanical properties, Tests.

(Engineering--Civil, TT, v. 10, no. 8)

63-23000

- I. Rathje, J.
- II. AERDL T-1672
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and Development Labs.,
Fort Belvoir, Va.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

The Principles of Water Flow Measurement, by
W. Henn. UNCL

GERMAN, per, VDI Forschung, No 385.

DSIR 33881/CT

Sci - Engr, hydromechanics
Mar 59

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Mar 59
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Effect of Transition in Cross-Sectional Shape on the
Development of the Velocity and Pressure Distribution
in Turbulent Flow in Pipes, by F. Meyer

VDI, 1937, V.D.I., Forschungsheft, No 339,
October 1937, pp 1-20.

TRA3/TID T.M.903

1. Title - Engineering
2. Author

5824

Discharge Tests and Force Measurements on the
Stationary Blading of a Single Stage Experimental
Turbine in the Air Test Plant, by W. Hartmann,
41 p.

GERMAN, per, VDI-Forschungsheft, 1939,
No 397, pp 1-20,

SLA 59-17725

Sci
Feb 60
Vol 2, No 10

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The Dimensioning of Steam Infector Compressors and
Their Behaviour in Varying Conditions, by J. Wiegand,
UNCLASSIFIED

GERMAN, per, VDI-Forschungsb, Vol 11B, (401), 2
Mar/Apr 1940, pp 1-24.

TPA3/TIB T 4282

Scientific Physics, Engineering

17.672

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and the by, V.D.T., Forschungsbereich 405, 1940,
1941.

TF03/110 T.175

Scientific - Engineering
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Calculation of Heat Transfer in the Boundary Layer
of Bodies in Flow, by E. Eckert

GERMAN, V. D. I. Forschungsh., (416), 27 pp., XPS 1942

Air Material Command, Dayton, Ohio, Tr No
ATI 43691 OT/169

Scientific - Physics

Superimposed Alternating Loads, Their Generation
and Effect Upon the Fatigue Strength and Stress
Formation of Shafts With Transverse Holes,
by August Thum, Wilhelm Kirmser.
GOVERNMENT USE ONLY
GERMAN, per, VDI - Forschungsheft 419, Issue B,
Vol XIV, 1943, pp 1-33. 9695529
DDC RSIC-268

Sci - Eng
Jan 65

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The Transfer of Frictional Heat of Bearings From
the Lubricating Film into the Frictional Surfaces,
by G. Vogelpohl, 79 pp. UNCLASSIFIED

GERMAN, per, VDI Forschungsheft 424, supplement to
Forschung auf dem Gebiete des Ingenieurwesens,
Issue B, Vol XVI, Jul - Aug 1949.

Navy Tr 757/BuShips 515

Scientific -
CTS/DEX

7324

Anisotropic Elasticity of Wood and Laminated
Wood, by R. Keylwerth.
GERMAN, per, VDI-Forschungsheft, No 430,
1951, pp 1-40.
NTC-70-13181-11L

Feb 72

Photographs of the Combustion of Gas Mixtures
in Tubes with Self-Illumination from the Flame and
With Schlieren (Spark) Illumination, by
Ernst Schmidt, H. Steinicke, U. Neubert, 54 p.

GERMAN, per, VDI-Forschungsheft, 1951, p No 431.

SLA 59-20074

Sci
Feb 60
Vol 2, No 12

108,254

The Plastic Behavior of Revolving Steel Rollers Under
Point Contact, by G. Niemann, K. W. Kraupner, 18 pp.
UNCLASSIFIED

GERMAN, per, VDI - Forschungsheft 434 supplement
to Forschung auf dem Gebiete des Ingenieurwesens,
Issue B, Vol XVIII, 1952, pp 5-15.

Navy Tr 759/BuShips 517

Scientific -
CTS/DEX

7326

Vibrations in Roller Bearings for Statically
Determinate ~~SK~~ Support, by Dr. H. Perret, 32 pp.
UNCLASSIFIED

Full translation.

GERMAN, reprint from VDI-Forschungsheft 434,
Supple to Forschung auf dem Gebiete des
Ingenieurwesens, Issue B. Vol XVIII, 1952, pp 17-28.

1094

Navy Tr 740/Bu-Ships 518

Kfur - Germany

Scientific - Engineering, Roller bearings, support
Apr 53 OTR

Temperature and Displacement of Cylindrical Sliding
Bearings at High Rotational Speed, by Hermann
Stephan, 79 pp. UNCLASSIFIED

GERMAN, per, VDI-Forschungsheft, No 439.

Navy Tr 1112/BuShips 567

X Scientific - Engineering
Apr 55 CTS

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Slide Bearing Calculations, by H. Sassenfeld,
A. Walther, 40 pp. UNCLASSIFIED

GERMAN, per, VDI-Forschungs, Vol II, No 441,
1954.

Navy Tr 1151/DeShips 577

Scientific - Engineering

May 55 CTS/LMX

23,971

Flow Investigation on Blade Lattices, by N. Scholz².

(442)
GERMAN, per, VDI, Forschungsh. ~~Vol. 17, 1954~~ B
No 20, 1954, pp 5-48.

SLAT-1753 + 1751
T.I.L. T.4540

Sci - Engineering, ~~Physics~~

35,707

Jun 1956

Investigations of the Density Distribution,
Water, and Steam Velocities as Well as the
Pressure Loss in Vertical and Horizontal Up-
Flow Boiler Tubes, by Karl Schwarz, 152 pp.

GERMAN, per, VDI-Forschungsheft 208, No 445
1954, pp 1-44.

1736 G
ABC Tr 2314

Sci - Chemistry
Physics

29,184

Calculation of the Frictionless Incom-
Pressible Flow for a Given Two-Dimensional
Cascade (Direct Problem), by Hermann Schlichting,
121 pp.

GERMAN, per, VDI-Forschungsheft, No 447, 1955.

SLA 59-16784

Sci

OTS, Vol III, No 6

Sep 60

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On a Method of Investigation of Nonlinear
Systems of Oscillations and of Servo-Mech-
anisms, by Kurt Magnus, 67 pp.

GERMAN, per, Verein deutscher Ingenieure,
Forschungsheft, No 451, 1955.

NASA OC-L-398*
(*Available on Loan Only)

Eel - Engr, Mth

Mar 59

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Investigations of the Behaviour of Vegetable Substances
During Drying, by P. Gorling.
GERMAN, per, Verein Deutscher Ingenieure
Forschungsheft, Vol XXII, No 458, 1956, pp 3-35.
CSIRO/No 6318

Sci - Biol/Med
Apr 64

254,573

Heat Transfer and Pressure Drop in Rough Tubes,
by W. Nunner. UNCLASSIFIED

GERMAN, per, VDI-Forschungsh, Vol XXIV, 5-39, 1956,
Epp: pp 5-39.

AENE 786

Sci - Phys
Nov 58

76.894

Finite Difference Method for Calculating
Transient Temperature Distributions Due to One
Dimensional Heat Flow in Simple and Composite
Bodies, by H. Schuh. UNCL

GERMAN, per, VDI-Forschung, No 459, 1977.

RAE T50

SLA 34-1117

Sci - Phys
Feb 59

81,466

Contribution to the Calculation of Flow
Processes, Especially of Alternating Charging
Processes in Internal Combustion Engines with
Regard to Intermittent Flow, by Eugen Wilhelm
Huber, 28 p.

GERMAN, per, VDI-Forschungsheft, 1957, No 462,
pp 7-13

SLA 60-10047

Sc1

Apr 60

Vol III, No 3

111,965

Speidel, Lothar.
INVESTIGATIONS INTO THE FLOW LOSSES OF
TWO-DIMENSIONAL CASCADES. [1963] 52p
(figs refs omitted)
Order from: SLA \$5.60

TT-63-20701

Trans. from: VDI-Forschungsheft (West Germany)
1957, no. 464.

DESCRIPTORS: *Fluid flow, Aerodynamic charac-
teristics, Axial-flow turbine, Boundary layer,
Turbine blades, Aerodynamic configurations, Test
methods, Tests.

TT-63-20701

1. Title: Cascades
(Aerodynamics)
1. Speidel, L.

(Mechanics--Aerodynamics, TT, v. 11, no. 3)

Office of Technical Services

TT-65-13419

Field 2D

Goemlich, H.
INVESTIGATIONS TO IMPROVE PRECIPITATION OF
PLANT PROTECTIVES BY MEANS OF ELECTRICAL
CHARGES. 96p, 39refs.
Order from SLA: \$9.60 as TT-65-13419

Trans. of VDI-Forschungsheft (West Germany)
v24 n467 p32 1958.

MH 655

Pressure Loss and Heat Transfer for Turbulent
Flow, by Rudolph Koch, 139 pp.

GERMAN, per, VDI-Forschungsh, No 469, pp 1-44.

AEC Tr-3875

Sci - Phys
9 Jan 61
List 46

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Tests With The Impulse Measuring Method, by Gunther
Eudnick, 23 pp.

GERMAN, par, VDI-Forschungsheft, Vol ~~XXV~~ XXIV, No 410,
1958, pp 59-60.

CIA/FDD XX-796

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Physics

Mar 60

UNCLASSIFIED INTERNAL USE ONLY

110,352

Air Pollu. #396

R-9504-D

5 June 68

Der Effekt der Messdauer bei der Ermittlung von
Maximalkonzentrationen eines sich in turbulenter
Strömung ausbreitenden Gases

By: Wippermann, F.

From: VDI Forschungs Heft 483, 1961:49-52

(4 pp)

German - est for wds:

Please translate and type 1 camera ready copy.
Document can be cut.

Laws of Turbulent Gas Diffusion as a Foundation
for the Determination of Minimum Chimney
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AUTHOR:

SOURCE: VDI-FORSCHUNGSHFT NR 535
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